

EPA's ENERGY STAR ® Measurement and Tracking Tool Portfolio Manager for EISA 2007 Benchmarking and the E.O. 13514 Guiding Principles

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Agenda



- Guiding Principles and EISA policy background
- Portfolio Manager overview
- GP Checklist in Portfolio Manager



Guiding Principles Checklist in Portfolio Manager

June 2009

Collaboration begins between DOE FEMP / EPA / GSA

October 2009

Guiding Principles Checklist is live within EPA's Portfolio Manager







Policy History: Guiding Principles

January 24-25, 2006:

White House signing of the "Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding (MOU)"

January 24, 2007:

Executive Order 13423 "Strengthening Federal Environmental, Energy and Transportation Management"

December 1, 2008:

New guidance issued for High Performance and Sustainable Buildings for both new and existing buildings

October 5, 2009:

EO 13514 Federal Leadership in Environmental, Energy, and Economic Performance sets sustainability goals for Federal agencies and focuses on making improvements in their environmental, energy and economic performance.

EO 13514

- Achieve 30% reduction in vehicle fleet petroleum use by 2020
- Achieve 26% reduction in potable & 20% reduction in industrial, landscaping, & agricultural water consumption by 2020
- Comply with new EPA stormwater management guidance
- Achieve 50% recycling & waste diversion by 2015
- Requires that 95% of all applicable procurement contracts will meet sustainability requirements
- Requires 15% of buildings meet the Guiding Principles for High Performance and Sustainable Buildings by 2015
- Design all new Federal buildings which begin the planning process by 2020 to achieve zero-net energy by 2030
- Pursue cost-effective & innovative strategies, such as highly reflective & vegetated roofs

The Guiding Principles: A lot of questions

- Interagency Sustainability Working Group (ISWG) GP Task Group, Dec. 2010
- Align with the EO 13514, legislation, and federal rulemaking
- Proposed interpretations and recommended evidence of compliance
- GPs for Leases?
- Policy and reporting?
- For delivery to ISWG and OMB by June 2011

Guiding Principles for Existing Buildings

- I. Employ Integrated Design Principles
- II. Optimize **Energy** Performance
- III. Protect and Conserve Water
- IV. Enhance Indoor Environmental Quality
- V. Reduce Environmental Impact of Materials
- VI. Sustainable Site Characteristics?

GP Compliance Reporting: Federal Real Property Profile, Data element #25



Report compliance no later than Dec. 15, coordinated with agency's Senior Real Property Officer

EISA 2007 sec. 432 Benchmarking of Federal Facilities



- Covered = "federal facilities...that constitute at least 75 % of facility energy use at each agency" that are metered
- Energy benchmarking for "covered facilities" by energy manager
- April 15, 2010: Building Energy Use Benchmarking Guidance
- Benchmarking System: "DOE has selected the ENERGY STAR Portfolio Manager tool (Portfolio Manager)..."
- Start benchmarking as soon as electricity is metered
- Keep benchmarking as new meters for natural gas, steam, etc... are added



Building Energy Use Benchmarking Guidance



Benchmarking = The process of accounting for and comparing a metered building's current energy performance with its energy baseline, or comparing a metered building's energy performance with the energy performance of similar types of buildings.

Portfolio Manager produces both internal and peer-to-peer benchmarking metrics



EISA 432 Compliance Tracking System (CTS)



- Designation and location of facilities covered by EISA requirements
- Assignment of energy managers
- Energy and water evaluations completed at covered facilities
- Implementation of energy and water efficiency measures (ECMs), including estimated cost and savings
- Follow-up status on implemented measures, including measured savings and persistence of savings
- Building benchmarking information



CTS Benchmarking Data



- 1. Building characteristics: name, type (office, warehouse, etc), location, floor area
- 2. Name of benchmarking tool used
- 3. Energy consumption data: a) total or partial energy consumed b) annual site energy in Btu
- 4. Benchmarking results: a) site energy intensity b) source energy consumption c) source energy intensity
- 5. Benchmarking rating/score (if available)

Portfolio Manager users will have an automated option for upload into CTS





What is Portfolio Manager?

- 1) An interactive management tool that allows users to track, assess and benchmark energy and water consumption for *all* facility types across entire building portfolios
- 2) For spaces eligible to receive the ENERGY STAR performance score, it is a **standardized metric** for comparing whole building energy performance to other buildings of similar type across the nation



Portfolio Manager: Whole building energy benchmarking tool



- No-cost on-line benchmarking tool for all commercial buildings
- Track energy use
 - Weather normalized source EUI
 - National average comparisons
 - Comparison to custom baselines
 - Energy performance ratings (for selected spaces)
- Track energy costs, upgrades, and investment cost, carbon emissions, and water
- Customized dashboard, reporting, and data sharing
- Apply for ENERGY STAR recognition
- Guiding Principle Checklist and EISA 2007 requirements



Eligible to Receive the ENERGY STAR Score



** All facility types can track and assess energy, GHG emissions, and water use



Bank/Financial Institutions



Courthouses



Data Centers



Dormitories



Hospitals



Hotels



Houses of Worship



K-12 Schools



Medical Offices



Office Buildings



Retail Stores



Senior Care Communities



Supermarkets



Warehouses

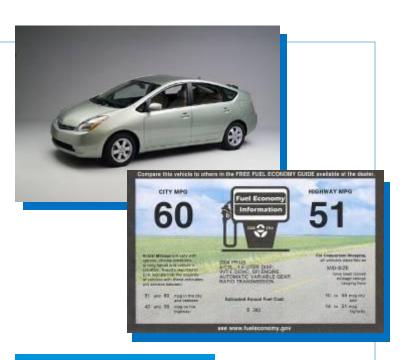


Wastewater Treatment Plants*



Energy Performance Score for Buildings





Fuel Efficiency

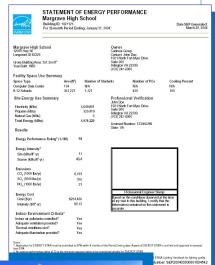
MPG

Is 60 MPG high or low for an automobile?

Is 80 kBtu/SF/YR high or low for a building?

Statement of Energy Performance

ENERGY STAR Score

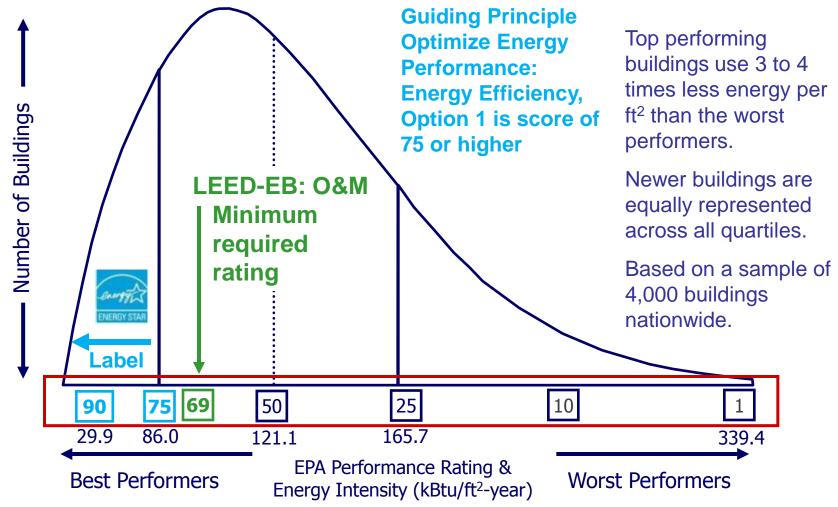






ENERGY STAR Energy Performance Score







Identify Best Opportunities for Energy Efficiency Improvements



 Identify under-performing buildings to target for energy efficiency improvements.

Establish baselines to set goals and measure

progress



Prioritize efforts by identifying under-performing buildings.

You can't manage what you don't measure!



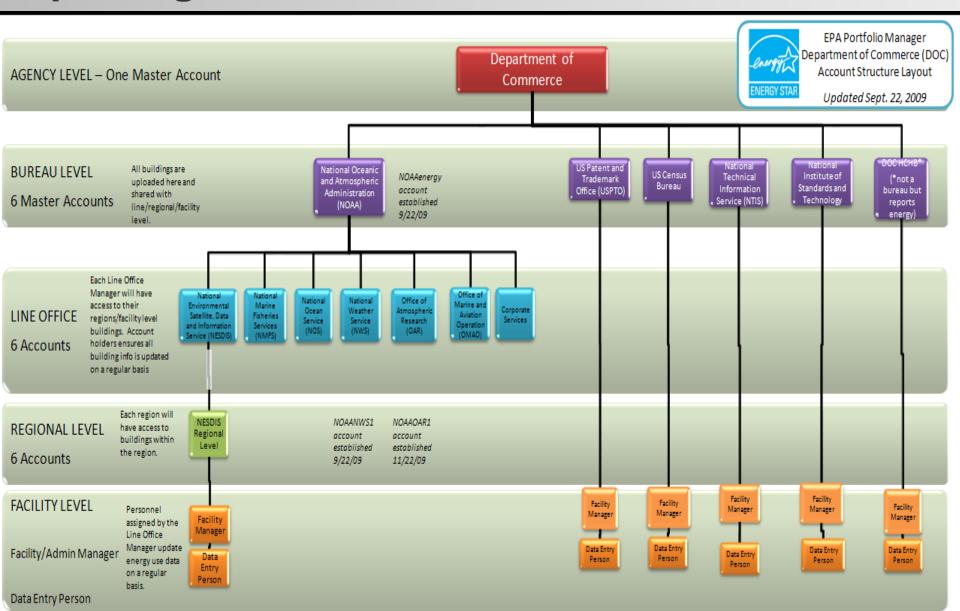
Using Portfolio Manager: Where to begin?



- Coordinate with and between sustainability and energy leads
- Comply with GPs and/or EISA 2007 and/or LEED?
- Establish a framework for initial data entry to avoid duplication
- Establish a framework for sharing Portfolio Manager building profiles and data (external hierarchy)



Sample account structure for sharing and reporting



Federal facilities will need this data



General Facility Information

*Address: city, country, state, & zip code

Year Built, plus

*Agency, Department, Federal Campus

*Federal Real Property ID

To access GP Checklist

Energy and Water Consumption

11 consecutive months of data for each energy source for a score
24 months of energy and water use for tracking over time

Space Type Data

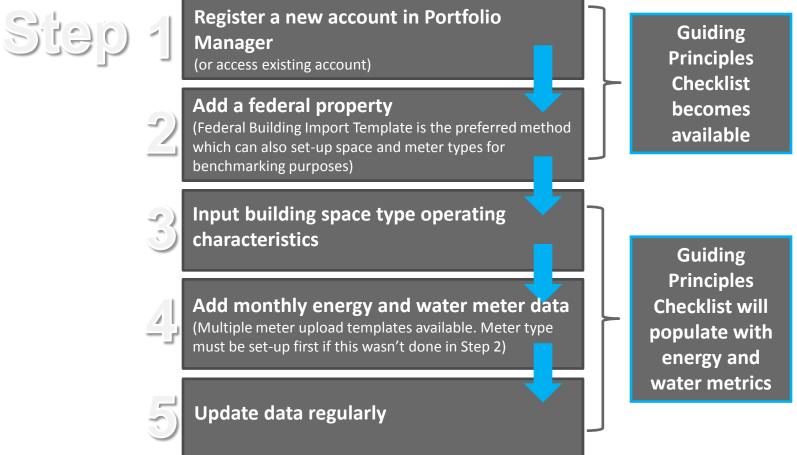
Square Footage
Occupancy
Number of PCs
Hours of operation
% Heated and Cooled

To track and benchmark Consumption for EISA



Guiding Principles Checklist in Portfolio Manager







After the first two steps, users can access the Guiding Principles Checklist to document building assessments for ALL Guiding Principles. Users may choose to complete steps three and four for energy and water consumption benchmarking purposes and to auto-populate associated metrics within the applicable required actions in the Guiding Principles Checklist.

Step 2

Add a Federal Property



General Facility Information

Address: City, County, State, & Zip Code

& Year Built, Agency, Department, Federal Campus, Federal Real Property ID

Four ways to get data in Portfolio Manager...

- 1. Import federal facilities using the Federal Building Import Template (recommended)
- 2. Manually add individual federal properties
- 3. Edit a property that already exists in Portfolio Manager as federal
- 4. Automated Benchmarking Service (ABS)



Step 2, 3 and 4

Using the Federal Building Import Template



- •Time-saving tool designed for agency-wide data upload
- Import basic facility data to access the GP Checklist
- Import space use, energy, and water data for tracking and benchmarking, to populate the GP Checklist, and for EISA benchmarking
- Submit to EPA staff for data
 QC, duplicate check, and
 successful upload

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	1 Facility Name	Street Address	City	State Abbreviation	Zip Code	Year Built	Agency
	2 100 Area Emergency Rad Detect Sys.	Bidg Hanford Site 100 Area	Outland	WA	99354	1985	Department of Energy
	Radislogical Calibrations Lab	318 Cupress St.	Richland	WA	99354	1967	Department of Energy
		350D Ash St.	Richland		99354	71987	
				WA			Department of Energy
	5 Storage Building	350C Ash St.	Richland	WA	99354	71982	Department of Energy
	6 331G Integration Laboratory	331G Cypress St.	Richland	WA	99354	71977	Department of Energy
	T 3790 Office Building	3760 Redwood St.	Richland	WA	99364	1952	Department of Energy
	8 Analysis & Nuclear Research Lab	320 Cypress St.	Richland	WA	99354	1965	Department of Energy
	8 Warehouse	3608 Ash St.	Richland	WA	99354	1980	Department of Energy
	10 Interim Waste Storage & Disposal	331C Cypness St.	Richland	WA	99354	1974	Department of Energy
	11 Aerosol Wind Tunnel Res Fac	331H Cypress St.	Richland	WA	99354	1979	Department of Energy
	12 Biomagnetic Effects Lab	331D Cypness St.	Richland	WA	99354	7974	Department of Energy
	13 Storage Building	Hanford Site 600 Area	Richland	WA	99354	1973	Department of Energy
	14 William R. Wiley - EMSL	3345 Q Avenue	Richland	WA	99364	71997	Department of Energy
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Guiding Principles Checklist in Portfolio Manager

Used for:

- Conducting building walk-throughs
- Recording compliance
- Storing compliance documents
- Reporting

Live Demo



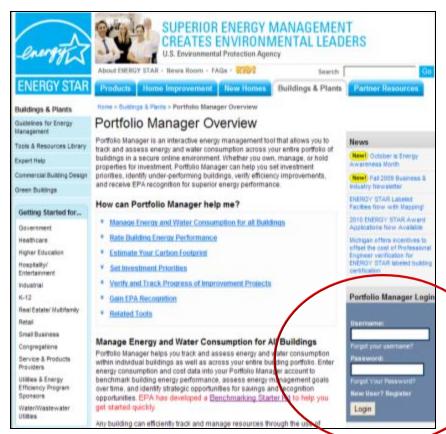
- 1. Register username and log in
- 2. Enter a federal facility manually
- 3. Add space
- 4. Add energy and water
- 5. Sharing feature
- 6. GP Checklist functionality
- 7. GP Checklist PDF Report
- 8. GP Federal Sustainability Report
- 9. EISA 2007 data



Log-in to Portfolio Manager to Access the Guiding Principles Checklist







www.energystar.gov

www.energystar.gov/benchmark



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New Custom Reporting: Request and Receive Data from Other PM Users





- Choose data (performance metrics) needed for reporting
- Add custom instructions
- 3. Distribute report via unique URL
- 4. Data from recipients is aggregated electronically

